

18-Nov-2015

18-Nov-2016 18-Nov-2015

23.2 °C

33.5 %

1.2

US



## **Certificate of Calibration**

## **Beaverton Service Center**

Certificate Number: 192262

Data Type: Found-Left

Result Summary: In Tolerance

Manufacturer:

Fluke 70 III

Serial Number:

72830395

**Description:** 

Model:

Multimeter

Procedure:

**Customer:** 

Fluke 70-3: (1 year) CAL VER /5520A

STATE OF WASHINGTON

City:

SEATTLE

WA State:

CCS WSP 17-NOV-2015 Purchase Order:

Revision:

RMA:

**Humidity:** 

Calibration Date:

**Calibration Due:** 

Certificate Date:

Temperature:

Country:

30914925

This calibration is traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTB, NRC, NPL, etc.), ratiometric techniques, or natural physical constants. This certificate applies only to the item identified and shall not be reproduced other than in full, without the specific written approval by Fluke Corporation. Calibration certificates without signature are not valid. The calibration has been completed in accordance with Fluke Electronics Corporation Quality System Document 111.0 Revision 118 8/2014 and/or Fluke 17025 Quality Manual QSD 111.41 Revision 005 9/2014.

The Data Type found in this certificate must be interpreted as:

- · As Found Calibration data collected before the unit is adjusted and / or repaired.
- Calibration data collected after the unit has been adjusted and / or repaired. As - Left
- Found-Left Calibration data collected without any adjustment and / or repair performed.

This calibration conforms to the requirements of ANSI/NCSL Z540-1-1994 (R2002).

In the attached measurement results, deviation may be expressed with units, Measured Value (MV) - Nominal Value (NV) or as a proportion of the nominal value ((MV-NV)/NV), expressed without units with a scalar multiplier such as % (0.01), or as a ratio of the units (mA/A, μV/V, etc.) Descriptions such as μΑ/Α, μV/V, and others, where used to annotate results or column headings are the preferred replacements for what was historically labeled as "ppm" or parts-per-million and

described the results in that column, unless otherwise noted by units symbols.

Where applicable, the expanded uncertainty of measurement at the time of test is given in the following pages. They are calculated in accordance with the method described in the ISO Guide to the Expression of Uncertainty in Measurement (GUM). The reported expanded uncertainty of measurement is stated as the

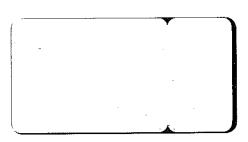
standard uncertainty of measurement multiplied by the coverage factor k, such that the confidence level approximates 95%.

Where applicable, the Test Uncertainty Ratio (TUR) is provided in the following pages. Unless otherwise stated, the TUR for a given measurement result is 4:1 or

Results are reviewed to establish where any measurement results exceeded the manufacturer's specifications.

Measurement results greater than limits of error are indicated by "!'.





STEVEN BUHLER Issued By

Fluke Corporation

Telephone

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Revision

FLUKE.

Certificate Number: 192262 Date of Calibration: 18-Nov-2015

Standards Used

**Asset** 

Description

Cal-Date

Cal-Due

16534

Fluke 5522A Calibrator

10-Aug-2015

10-Feb-2016

FLUKE.

Certificate Number: 192262 Date of Calibration: 18-Nov-2015

^~	lik	ration	Data
ua	НΟ	ration	Data

Parameter	Nominal Value	Measurement Result	Limits of Error Lower Limit Upper Limit		Test Uncertainty Ratio (TUR)
DISPLAY TEST					· · · · · · · · · · · · · · · · · · ·
Display Segments Illuminated Correctly:		Pass			
RESISTANCE TEST	·				
320Ohms Range					
0.0 Ohm	0.00	0.0	0.0	0.2	
100.0 Ohm	100.00	99.8	99.3	100.7	
3200Ohms Range					
1000 Ohm	1000.0	999	994	1006	
32kOhms Range					
10.00 kOhm	10.000	10.00	9.94	10.06	
320kOhms Range					
100.0 kOhm	100.00	100.0	99.4	100.6	
3.2MOhms Range					
1.000 MOhm	1.0000	1.000	0.994	1.006	
32MOhms Range					
10.00 MOhm	10.000	10.01	9.79	10.21	
DIODE TEST					
Beeper Audible		Pass			
Beeper OFF		Pass			
DC VOLTAGE TEST					
320mV Range					
300.0 mV	300.00	299.7	299.0	301.0	
DC VOLTAGE TEST					
3.2V Range					
2.700 V	2.7000	2.698	2.691	2.709	
32V Range					
27.00 V	27.000	26.98	26.91	27.09	
320V Range					
270.0 V	270.00	269.9	269.1	270.9	
600V Range					
600 V	600.0	601	597	603	
AC VOLTAGE TEST					
3.2V Range					
2.700 V @ 100 Hz	2.7000	2.695	2.644	2.756	
2.700 V @ 500 Hz	2.7000	2.683	2.644	2.756	
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Date of Calibration: 18-Nov-2015 Certificate Number: 192262

## **Calibration Data**

	Nominal Value	Measurement Result	Limits of Error		<b>Test Uncertainty</b>
Parameter			<b>Lower Limit</b>	<b>Upper Limit</b>	Ratio (TUR)
600V Range	•				
600 V @ 100 Hz	600.0	600	586	614	
600 V @ 1 kHz	600.0	599	586	614	